

CONTAINS NO CBI

Form Approved
OMB No. 2010-0019
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90-900000016

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt:

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Control Number:

Docket Number: _

EPA Form 7710-52

PART A	A G	ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	com	pleted in response to the <u>Federal Register</u> Notice of [12] [2]2 [8]8] mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		<u>Register</u> , list the CAS No
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule N/A
		(iii) Trade name as listed in the rule N/A
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [N/A]_]_]_]_]_[_]-[_]
		Name of chemical substance
1.02		entify your reporting status under CAIR by circling the appropriate response(s).
CBI	Ma	nufacturer 1
[_]		porter
	Pr	ocessor
		P manufacturer reporting for customer who is a processor
	X/	P processor reporting for customer who is a processor

1.03 CBI	Doe:	the substance you are reporting on have an "x/p" designation associated with it he above-listed Federal Register Notice?
<u>CB1</u> [<u>]</u>]	Yes	Go to question 1.04
·'	No	
1.04 CBI	а.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the <u>Federal Register Notice?</u> Circle the appropriate response.
[_]		Yes
	b.	Check the appropriate box below:
		[] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)
		[_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI	rep	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.
[_]		the trade name product a mixture? Circle the appropriate response.
	No	
1.06		tification The person who is responsible for the completion of this form must n the certification statement below:
<u>CBI</u>	en t	hereby certify that, to the best of my knowledge and belief, all information ered on this form is complete and acceptate."
		FORC Specialist (818) 847 - 5980 TITLE TELEPHONE NO.
[_]	•••	TITLE TELEPHONE NO. (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u>	with the required information on within the past 3 years, and thi for the time period specified in are required to complete section	you have provided EPA or another a CAIR Reporting Form for the list information is current, accurate the rule, then sign the certification 1 of this CAIR form and provide submitted. Provide a copy of anytion 1 submission.	sted substance e, and complete ation below. You any information
	information which I have not inc	best of my knowledge and belief, a cluded in this CAIR Reporting Form and is current, accurate, and comp	n has been submitted
	N/A NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
CBI [_]	certify that the following state those confidentiality claims white "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other that judicial or quasi-judicial proinformation is not publicly available.	e asserted any CBI claims in this ements truthfully and accurately a ich you have asserted. to protect the confidentiality of ese measures; the information is by other persons (other than government that discovery based on a showing occeeding) without my company's confidence of my company's competitive positions.	the information, not, and has not rnment bodies) by of special need in nsent; the of the information
	NAME TITLE	SIGNATURE () TELEPHONE NO.	DATE SIGNED
<u></u>	Mark (X) this box if you attach	a continuation sheet.	

PART	
1.09	Facility Identification
<u>CBI</u>	Name [
1.10	Other SIC Code
<u>CBI</u>	Name []]
	[C]A] [S]J]S]D][]] State Zip Dun & Bradstreet Number [T]A]-[T]A]A[T]-[T]A]A[T] Employer ID Number [T]A]-[T]A[T]-[T]A[T]

1.11	Parent Company Identification
<u>CBI</u>	Name [] 0 0
	[진교[교] [교] [교] [교] [교] [교] [교] [교] [교] [교]
	[<u>C]A</u>] [9] <u>1]3</u> 9][<u>0</u>]3] <u>3</u>]0] State
A	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name [5] 리 [[] [] [] [] [] [] [] [] [
	[윤]쯔]도]쥰]조]조]고]그]그]그]그]그]그]그]그]그]그]그]그]그]그]그]그]그
	[<u>C]A] [역]기51210</u> 1[<u>3]용]기5</u> State
	Telephone Number[8][][8]-[8]4]]][5]9]8]0
1.13	This reporting year is from
[_	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]]]]]]]]]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer []]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

Imported Processed (include quantity re Of that quantity manufactured In storage at the beginning For on-site use or process	epackaged)	NA 3,3 Kg/
Imported Processed (include quantity re Of that quantity manufactured In storage at the beginning For on-site use or process	epackaged) — or imported, report that quantity: g of the reporting year —	NA 3,3 Kg/
Processed (include quantity re Of that quantity manufactured In storage at the beginning For on-site use or process	epackaged)	3,3 Kg/
Of that quantity manufactured In storage at the beginning For on-site use or process	or imported, report that quantity: g of the reporting year	
In storage at the beginning	g of the reporting year	NA
For on-site use or process		49
	• • • • • • • • • • • • • • • • • • •	
now divert commorais dist		NA
tor direct commercial disc	ribution (including export)	NA
In storage at the end of t	he reporting year	NA
Of that quantity processed, r	eport that quantity:	
In storage at the beginning	g of the reporting year	NA
Processed as a reactant (c	hemical producer)	0.0
Processed as a formulation	component (mixture producer)	0.0
Processed as an article co	omponent (article producer)	3.3
	ort)	
	the reporting year	

[_] Mark (X) this box if you attach a continuation sheet.

	ponent cher	mixture co nical for a	mposition	is varia	ble, report	tion for each an average p	ercentage
	Componen Name	t	٠.	Supplie Name	r	Composition (specify	rage % on by Weigh precision, 45% ± 0.5%)
Telnene	-2,4-Diise	cyanate	Step	an Co	mpany_	3	6% + uK
						-	
							:
				<u>-</u>			
					•	Total	100%
		¥					

2.04	State the quantity of the listed substance that your facility manufactor processed during the 3 corporate fiscal years preceding the report descending order.	tured, in ing year	nported, in
CBI			
[_]	Year ending	[<u>]</u>] <u>2</u>] Mo.	[<u>8]</u>] Year
	Quantity manufactured	AG	kg
	Quantity imported	NA	kg
	Quantity processed	9.8	kg
	Year ending	[<u>]</u>] <u>2</u>] Mo.	[<mark>宮]</mark> Year
	Quantity manufactured	NA .	kg
	Quantity imported	NA_	kg
	Quantity processed	14.7	kg
	Year ending	. [<u>]]</u>]	[3]5] Year
	Quantity manufactured	_ NA	kg
	Quantity imported	NA	kg
	Quantity processed		k
2.05	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle al	.1
CBI	Not Applicable		
[_]	Continuous process		
	Semicontinuous process		
	Batch process		
l}	Mark (X) this box if you attach a continuation sheet.		

2.06	Specify the manner in w	hich you processed th	ne listed substance.	Circle all
CBI	appropriate process typ			
[_]				
	Continuous process			
	Semicontinuous process	• • • • • • • • • • • • • • • • • • • •		2
	Batch process			3
2.07	State your facility's r substance. (If you are	name-plate capacity for a batch manufacture	or manufacturing or pr r or batch processor,	cocessing the listed do not answer this
CBI	question.)			
[_]	Manufacturing capacity			N/A kg/yr
	Processing capacity .			∪√ kg/yr
	Troccooling Capacity		-	
2.08	If you intend to incrementations in the manufactured, imported	ase or decrease the q	uantity of the listed time after your curr	substance ent corporate fiscal
CBI	year, estimate the inc volume.	rease or decrease bas	ed upon the reporting	year's production
<u></u>		Manufacturing	Importing	Processing
ı—ı		Quantity (kg)	Quantity (kg)	Quantity (kg)
	Amount of increase	44	<u>a'a</u>	U.K
	Amount of decrease		49	uL
	·			
	•			•
	•			
	•			
	v			
				•
[_]	Mark (X) this box if y	you attach a continua	tion sheet.	

2.09	listed substance	rgest volume manufacturing or processing proces, specify the number of days you manufactured of the reporting year. Also specify the average type was operated. (If only one or two operated)	r processed number of ho	the listed ours per
CBI			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
••	• .	Manufactured	_44	_NA
		Processed	12	_ 0.L 5
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)	· 44	
		Manufactured		
	•	Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)	NA	
		Manufactured		
		Processed		
2.10 <u>CBI</u> []	State the maximum substance that chemical.	num daily inventory and average monthly inventor was stored on-site during the reporting year in	y of the lis	sted E a bulk
	Maximum daily i	nventory	<u>la</u> .	<u>C</u> kg
	Average monthly	inventory	. <u> </u>	kg kg
[_]	Mark (X) this	box if you attach a continuation sheet.		

None	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of products, products, Impuritie
<u>uk</u>	UK	<u> UK</u>	<u>uk</u>	UK
	1 (18 a) 1 (18 a)			
		•		
B = Byproduc C = Coproduc	et	oyproduct, copr	oduct, or impurit	y:
I = Impurity				
I = Impurity				

a.	b. % of Quantity Manufactured, Imported, or	% of Q	c. uantity aptively	d.
Product Types ¹	Processed	<u>On</u>	-Site	Type of End-Users
	100%		<u> </u>	I
	·			
<pre>B = Synthetic reactan C = Catalyst/Initiato</pre>	t r/Accelerator/	M = Plast N = Dye/P	igment/Colo	orant/Ink and addit orographic chemical

2.13 <u>CBI</u> [_]	Expected Product Types import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam	For each use, specieach use as a percentage of teach product type.	ce at fy th tage Also he va	any time after e quantity you e of the total vol list the quantitue listed under	xpect to manufacture, ume of listed y of listed substance column b., and the
	a.	b.		c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed		of Quantity Jsed Captively On-Site	Type of End-Users ²
	NA NA	NA		NA	
:					
			_		
					· .
	<pre>"Use the following cod A = Solvent B = Synthetic reactan C = Catalyst/Initiate Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reager F = Chelator/Coagular G = Cleanser/Deterger H = Lubricant/Friction agent I = Surfactant/Emuls: J = Flame retardant. K = Coating/Binder/Act</pre> <pre>"Use the following code</pre>	at or/Accelerator/ .zer/Scavenger/ ot ot/Sequestrant ot/Degreaser on modifier/Antiwear difier dhesive and additives	L = M = N = O = P = Q = R = T = U = V = X = S = T = T = T = T = T = T = T = T = T	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify)	als and additives chemicals l chemicals s and additives additives fier
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons H = Othe		pecify)	
<u>, </u>	Mark (X) this box if	you attach a continu	ation	sheet.	

[_]	a.	b.	c. Average % Composition of	d.
	Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users ³
	<u> </u>	AA	<u> </u>	<u>NA</u>
	agent I = Surfactant/Emu J = Flame retardar K = Coating/Binder	ator/Accelerator/ pilizer/Scavenger/ agent alant/Sequestrant agent/Degreaser ation modifier/Antiwea alsifier at ar/Adhesive and additive	<pre>M = Plasticizer N = Dye/Pigment/Col 0 = Photographic/Re and additives P = Electrodepositi Q = Fuel and fuel a R = Explosive chemi S = Fragrance/Flavo</pre>	on/Plating chemicals dditives cals and additives r chemicals ol chemicals ds and additives additives ifier
	A = Gas B = Liquid C = Aqueous solut: D = Paste E = Slurry F1 = Powder	F2 = Cr F3 = Gr ion	ystalline solid anules her solid ther (specify)	
	'Use the following I = Industrial CM = Commercial	codes to designate the CS = Co H = Ot		

2.15 CBI	Circle listed	e all applicable modes of transportation used to deliver bulk shipments of t i substance to off-site customers.	he
[_]	Truck		. 1
1	Railca	ar	. 2
)/a	Barge	, Vessel	. 3
	Pipel	ine	. 4
	Plane		. 5
	Other	(specify)	. 6
2.16 <u>CBI</u> []	or pr of en	mer Use Estimate the quantity of the listed substance used by your customerared by your customers during the reporting year for use under each categor duse listed (i-iv).	ners ory
		cory of End Use	
N/a	i.	Industrial Products Chemical or mixture	ko/vr
, 11,		Article	
			··o/ / -
	ii.	Commercial Products Chemical or mixture	kg/yr
		Chemical of mixture	kg/yr
		ALCICLE	
		Consumer Products	kg/yr
		<u> </u>	
		Article	Kg/ yı
	iv.	<u>Other</u>	1 <i>(</i>
		Distribution (excluding export)	
		Export	
		Quantity of substance consumed as reactant	
		Unknown customer uses	kg/y:
· [_]	Mark	(X) this box if you attach a continuation sheet.	

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 CBI	Specify the quantity purchased and the average price of for each major source of supply listed. Product trade The average price is the market value of the product substance.	es are treated a	ıs purchases.
[_]		Quantity	Average Price
	Source of Supply	(kg)	(\$/kg)
	The listed substance was manufactured on-site.	AG	Aq
	The listed substance was transferred from a different company site.	NA	_ NA
	The listed substance was purchased directly from a manufacturer or importer.	3,3	410.00
	The listed substance was purchased from a distributor or repackager.	40	NA
	The listed substance was purchased from a mixture		
	producer.	40	44
	Circle all applicable modes of transportation used to	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility.	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to
CBI	Circle all applicable modes of transportation used to your facility. Truck	deliver the li	sted substance to

3.03 a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]	Bags
	Boxes
	Free standing tank cylinders
	Tank rail cars
	Hopper cars
	Tank trucks
	Hopper trucks
. 15번 왕 (1) 	Drums
	Pipeline
	Other (specify)1
b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks. $\triangleright \triangle$
	Tank cylinders mmH
	Talik Cyllindels
	Tank rail cars mmH
	•
	Tank rail cars mmH
	Tank rail cars mmH
	Tank rail cars mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH Tank trucks mmH
	Tank rail cars mmH Tank trucks mmH

of the mixture average percen	e, the name at compositi	of its supplier(s)	orm of a mixture, list the or manufacturer(s), an est le listed substance in the morting year.	imate of th
Trade Name		Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processe (kg/yr)
Stepanform 1	506-T	Stepan Co.	36% ± NA	3,3_
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	en e	on Allinois V	en e	
			••	
	v			

[__] Mark (X) this box if you attach a continuation sheet.

3.05 <u>CBI</u>	State the quantity of the reporting year in the for the percent composition,	m of a class I chemic	al, class ll	chemical, or polymer, and
·—·		Quantity Used (kg/yr)		<pre>% Composition by Weight of Listed Sub stance in Raw Materia (specify ± % precision</pre>
	Class I chemical	3.3		36% ± NA
. •			- .	
:	Class II chemical	NA	_	NA
			-	
	Polymer	NA	_	NA
			_	
			_	
		•		
	¥			
,				

SECTION	/.	DHYSTCAL	/CHEMICAL	PROPERTIES
NE LITTE	4	PRINICAL	/ U.D.D.H.L.CALL	INOTHIT

	Genera	l In	stru	cti	ons:
--	--------	------	------	-----	------

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

PART A	A PHYSICAL/CHEMICAL DAT	'A SUMMARY		
4.01 CBI	Specify the percent pur substance as it is manu substance in the final import the substance, or	ifactured, imported, or product form for manuf	acturing activities, at	the time you
[_]	NA - purtue	Manufacture	Import	Process
	Technical grade #1	% purity	% purity	% purity
	Technical grade #2	% purity	% purity	% purity
	Technical grade #3	% purity	% purity	% purity
4.02	¹ Major = Greatest quan	tity of listed substance	ne manufactured, importe	ed or processed.
4.02	1 Major = Greatest quan Submit your most recen substance, and for eve	tity of listed substance tly updated Material Scry formulation contain		ed or processed. for the listed e. If you possess rce, submit your
4.02	1 Major = Greatest quan Submit your most recensubstance, and for ever an MSDS that you devel version. Indicate whe appropriate response.	tity of listed substance tly updated Material Sary formulation contains oped and an MSDS development at least one MSDS	afety Data Sheet (MSDS) ing the listed substanc oped by a different sou has been submitted by	for the listed e. If you possess rce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recensubstance, and for eve an MSDS that you develversion. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Scry formulation contain oped and an MSDS development at least one MSDS	afety Data Sheet (MSDS) ing the listed substance	for the listed e. If you possess rce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recensubstance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Scry formulation contain oped and an MSDS developed at least one MSDS	afety Data Sheet (MSDS) ing the listed substancoped by a different sou has been submitted by	for the listed e. If you possess rce, submit your circling the
4.02	1 Major = Greatest quan Submit your most recens substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	tity of listed substance tly updated Material Scry formulation contain oped and an MSDS developed at least one MSDS	afety Data Sheet (MSDS) ing the listed substanc oped by a different sou has been submitted by	for the listed e. If you possess rce, submit your circling the

LUCKHEED ADP' 9212 JAN FERNANDO RD. SUN VALLEY

CA 91352

MSDS NUMBER 16325

3382 01 د

MATERIAL SAFETY DATA SHEET

TE: 06/01/88 PRUDUCT NUMBER: 717100

CUST # 43213-702

P.O.# #BJ423580X

PAGE:

PRUDUCT NAME: STEPANFOAM F-506-T

STEPAN COMPANY

NORTHFIELD, IL. 60093

(312). 446-7500

EMERGENCY INFORMATION

MEDICAL:

1-800-228-5635

CHEMTREC:

1-800-424-9300

SECTION 1: GENERAL INFORMATION

AUG 0 4 1988

PRODUCT NUMBER: 717100 PRODUCT NAME: STEPANFOAM F-506-T

PRODUCT CLASS: TOLUENE DIISOCYANATE.

PRECAUTIONS: POISON.

REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER-

TRANSPURTATION HAZARD CLASSIFICATION, IF ANY.

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT (CAS #)

USHA PEL (PPM)

ACGIH TLV (PPM)

CTHER

TOLUENE-2,4-DIISUCYANATE (TDI) (C) 0.02

0.005

(584-84-9) 36%

Per Jay Haring (312)501-2349 - 30%

NE = NOT ESTABLISHED.

NL = NOT LISTED.

(C) = IDENTIFIED AS A CARCINOGEN BY OSHA, IARC, OR NTP.

******************************* SECTION III: PHYSICAL/CHEMICAL DATA

(CENTINUED)

F: 06/01/88 CUST # 48218-702 P.O.# WBJ423580X PRODUCT NUMBER: 717100 PRODUCT NAME: STEPANFOAM F-506-T

PAGE:

2

BUILING PUINT:

OVER 200 DEG F. (93 DEG C.).

% VOLATILE BY WEIGHT:

NII.

EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER.

VAPUR DENSITY: ESTIMATED HEAVIER THAN AIR. WEIGHT PER GALLUN: 10.0 LBS.

FLASH POINT (SETA FLASH CLUSED CUP):

UVER 200 DEG F. (93 DEG C.).

EXPLOSIVE LIMITS:

LUWER:

1%

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR WATER FOG. CLASS BC, ABC FIRE EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHT-ING FIRES INVELVING CHEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR INCOMPATABILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS

WATER, ALCOHOLS, AMINES, ALKALIES, METAL COMPOUNDS (CATALYSTS).

HAZARDOUS DECOMPOSITION PRODUCTS:

CYANIDES AND AMMONIA MAY BE FORMED.

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING.
FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST
15 MINUTES.

(CONTINUED)

PAGE: 3

SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION.
WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING AND CLEAN BEFORE REUSE.

INHALATION: MIST CAUSED BY MANUFACTURING CPERATIONS IRRITATES NASAL PASSAGES.

IF VAPORS OR MIST CAUSE IRRITATION OR DISTRESS,

REMOVE TO FRESH AIR.

GIVE CXYGEN OR APPLY ARTIFICIAL RESPIRATION,

IF NEEDED.

INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE TO THIS PRODUCT HAVE NOT BEEN ESTABLISHED.
UNNECESSARY EXPOSURE TO THIS PRODUCT OR ANY CHEMICAL SHOULD
BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

IN A NATIONAL TUXICOLOGY PROGRAM (NTP) STUDY, TDI WAS CARCING—
GENIC WHEN GIVEN ORALLY TO RATS AND MICE AT MAXIMUM TOLERATED
DOSES. TDI WAS NOT CARCINOGENIC TO RATS IN A TWO—YEAR INHALATION
STUDY.

SEE SECTION II FOR HAZARDOUS INGREDIENTS PRESENT IN THIS PRODUCT AND THEIR CORRESPONDING THRESHOLD LIMIT VALUES.

CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

VENTILATE AREA.

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS

PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,

STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH

ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN

ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE.

OBSERVE ALL LABELED SAFEGUAROS UNTIL CONTAINER IS

CLEANED, RECONDITIONED, OR DESTROYED.

(CONTINUED)

(

P.O.# HBJ423580X PRODUCT NAME: STEPANFOAM F-506-T PRODUCT NUMBER: 717100

PAGE:

SECTION VIII: PROTECTIVE MEASURES

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING. PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES.

RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR URGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLY (SEE SECTION II).

OTHER PROTECTIVE EQUIPMENT:

WEAR PROTECTIVE CLUTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

EYE HASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

SECTION IX: SPECIAL PRECAUTIONS ********************************

HANDLING AND STURAGE:

AVOID OVERHEATING OR FREEZING.

AVOID OPEN FIRE OR FLAME.

OTHER PRECAUTIONS:

SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. IF INGESTED, CALL A PHYSICIAN.

DO NOT POUR INTO DRAINS, AS SOLIDS THAT FORM WILL PLUG SEWERS. 1% AMMONIA MAY BE USED TO NEUTRALIZE SPILLS.

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******************************* *******************************

(R) REGISTERED TRADEMARK OR APPLICATION PENDING. ******* LAST REVISION DATE: 10/16/87 09:39:34 **************

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State Liquified Gas Gas Solid Liquid Slurry Activity 5 1 2 3 Manufacture 5 1 3 Import 5 2 1 **Process** 5 2 1 Store 1 Dispose 5 3 1 Transport

[__] Mark (X) this box if you attach a continuation sheet.

Physical State	ocess Store Dispose Transport
Dust	ocess Store Dispose Hansport
1 to <5 microns 5 to <10 micron 1 to <5 microns 5 to <10 microns 5 to <10 microns 1 to <5 micron	
5 to <10 microns Powder	
Powder <1 micron	
1 to <5 microns	
1 to <5 microns	
5 to <10 microns	
Fiber <1 micron	
1 to <5 microns	
1 to <5 microns	
1 to <5 microns	
5 to <10 microns	
Aerosol <1 micron	
1 to <5 microns	
5 to <10 microns	
₩.	
	•

CECTTON	5	ENVIRONMENTAL FATE
SECTION	7	POVIKUNMENTAL FATE

5.01	Ind	icate the rate constants for the following tran	sformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	UK (1/M cm) at	nm
		Reaction quantum yield, 6	at	nm
	•	Direct photolysis rate constant, k_p , at	\(\)\(\)\(\)\(\)\(\)	latitud
	ъ.	Oxidation constants at 25°C:		
		For ¹ 0 ₂ (singlet oxygen), k _{ox}	UK	1/M
		For RO_2 (peroxy radical), k_{ox}	UK	1/M
	c.	Five-day biochemical oxygen demand, BOD ₅	UK	mg/]
	d.	Biotransformation rate constant:		
		For bacterial transformation in water, $k_b \cdots$	UK	1/h
		Specify culture	NK	
	e.	Hydrolysis rate constants:		
		For base-promoted process, $k_{\rm B}$	UK	1/M
		For acid-promoted process, k,	LAK.	1/M
		For neutral process, k_N	UK	1/h
	f.	Chemical reduction rate (specify conditions)_	NK	
	g.	Other (such as spontaneous degradation)	WK	

PART I	3 P	ARTITION COEFFICIENTS				-
5.02	a.	Specify the half-life of the	listed subst	ance in the follow	ing media	1.
		<u>Media</u>		Half-life (spec	ify unit	<u>s)</u>
		Groundwater		INK		
		Atmosphere		NK		
		Surface water		NK	W-2-1	
		Soil		NK		
	ъ.	Identify the listed substance life greater than 24 hours.	e's known tr	ansformation produc	ts that	have a half-
		CAS No.	<u>Name</u>	Half-life (specify units)		Media
		<u>uk</u>	NK	<u>uk</u>	_ in	UK
				•.	_ in	
					_ in	
					_ in _	
				V	/	at 25°0
5.03		ecify the octanol-water partit				at 25 0
5.04	Sp	ecify the soil-water partition	n coefficient	, K _d	UK	at 25°0
	So	il type				
5.05	Sp	ecify the organic carbon-wates efficient, K _{oc}	r partition		NK.	at 25°C
5.06	Sp	ecify the Henry's Law Constan	t, H		NK	atm-m³/mole
	Ma	rk (X) this box if you attach	a continuati	on sheet.		

Bioconcentration Factor	Species	<u>Test¹</u>
WK		UK
¹ Use the following codes	to designate the type of test:	
F = Flowthrough S = Static		
	·	
<u>.</u>		
		•
		•

1		Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers	\	
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
Ī	Substitutes List all known comme for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	te. A commercially ogically feasible to
Ī	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	te. A commercially ogically feasible to uct with comparable
Ī	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitue conomically and technol	cost (\$/kg)
Ī	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	cost (\$/kg)
I	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	cost (\$/kg)
I	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	cost (\$/kg)
I	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	cost (\$/kg)
.05 <u>31</u>	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitue conomically and technol	cost (\$/kg)

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

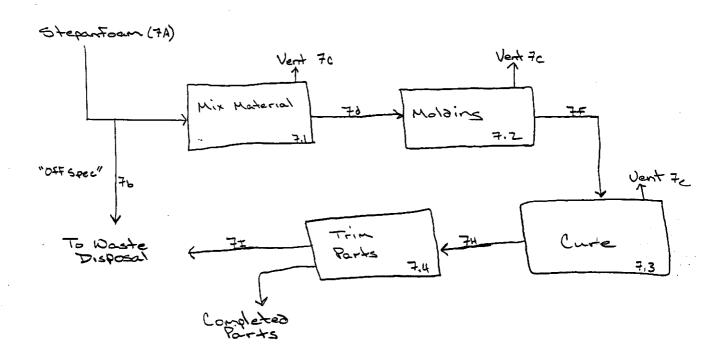
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type Moldine

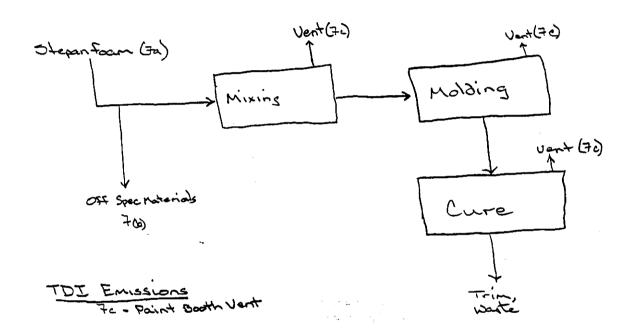


[] Mark (X) this box if you attach a continuation sheet.

7.03	In accordance with the instructions, provide a process block flow diagram showing all
	process emission streams and emission points that contain the listed substance and
	which, if combined, would total at least 90 percent of all facility emissions if not
	treated before emission into the environment. If all such emissions are released
	from one process type, provide a process block flow diagram using the instructions
	for question 7.01. If all such emissions are released from more than one process
	type, provide a process block flow diagram showing each process type as a separate
	block.

<u>CBI</u>

[] Process type Molding



^[] Mark (X) this box if you attach a continuation sheet.

Process type	Moldi	ng		
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Compositi
7.1	Mixing Container	Ambient	Atmospheric	_ NA
7.2	Mold	b (NA
7.3	Bench Top	ц		AG
7.4	Knife	ч		Met
-				

_		\		
_]	Process type .	Molding		
	Process Stream ID Code	Process Stream _Description	Physical State	Stream Flow (kg/y
	<u> </u>	StepanFoamF506-T	OL	- WK
	<u></u> 78	v\	<u> </u>	11
		· II	<u> </u>	11
	74	į t	50	
	7.	· · · · · · · · · · · · · · · · · · ·	50	
	76	Off-Spec StepanFoom	50	11
	7	Exhaust Ventillation	GU	
	1 5.11		cical state for each pr	ocess stream:
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	liquid	and pressure) re and pressure)	
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatu or slurry liquid liquid	and pressure) re and pressure)	
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatu or slurry liquid liquid	and pressure) re and pressure)	
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatu or slurry liquid liquid	and pressure) re and pressure)	
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatu or slurry liquid liquid	and pressure) re and pressure)	

[_]	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7 <u>0,75,74,75</u>	707	<u>DA</u>	NA	
	76	IGT	NA .	NA	ux
)	7c,7e,7g	エムア	- PA	NA	UK.
7.06	6 continued be	elow			

7.06 (continued)

Not Applicable

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number		Components Additive Pa	of ckage	Concentrations (% or ppm)
11				
			• —————	
•				
2			· · · · · · · · · · · · · · · · · · ·	
3				
4				
	••			
_				
5				
	,			
² Use the follow	ing codes t	o designate how	the concentration	was determined:
A = Analytical E = Engineerin	result g judgement	/calculation		
³ Use the follow	ing codes t	o designate how	the concentration	was measured:
V = Volume W = Weight				

SECTION 8 RESIDUAL TREATMENT GENERATION, CHARACTERIZATION, TRANSPORTATION, AND MANAGEMENT

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X) this	box if you	attach a	a continuation sheet.	

PART	A RESIDUAL	TREATMENT	PROCESS DESCI	RIPTION			
8.01 CBI	In accordan which descr	ce with the	e instruction reatment pro	ns, provide a	a residual tr r residuals i	eatment block dentified in	c flow diagram question 7.01.
[_]	Process typ	e	· _ Mol	iding			
		This	reaction	waste of the po Free	resulting Actuato	e formation fully and colors, and colors, and colors, aroses,	alyst.
	:						
					, t		
						·	
		,					

[_] Mark (X) this box if you attach a continuation sheet.

<u>I</u>	nrocess	type photo	conv this au	estion and coπ	ow diagram is uplete it separ explanation a	ately for each	in process
_]	Process	type	<u>Mal</u>	gird			
	a.	b .	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste ¹	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) 4,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	NA	NA	NA_	28		NA	_ AA_
	,						
			14				
						·	
.05	contin	ued below				,	

8:05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

Mark (X) this box if you attach a continuation sheet.

8.05 (continued	g	. 0)5	Υ (con	t	i	nu	ed	
-----------------	---	-----	----	-----	-----	---	---	----	----	--

8.05

Not Applicable

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1		
2		
3	·	
4		
•		
5		
		•
4Use the following codes to	designate how the concentration	on was determined:
A = Analytical result E = Engineering judgement/c		
continued below		
Mark (X) this box if you at	tach a continuation sheet.	

8'.05 (continued	d	1
------------------	---	---

Not Applicable

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit(<u>+</u> ug/l)
1		
2	·	
3		
_4		
<u>5</u>		
6		

[__] Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	Process	type	<u>M</u> e	blding				
	a.	ъ.	c.	d.	e	•	f.	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	of Resid	gement iual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods
	NA	NA	44	<u> </u>	200	20	10P	NA
				· · ·				
								
		_						
			••					

,								
	¹ Use t ² Use t	he codes pro he codes pro	vided in Ext vided in Ext	nibit 8-1 to	designate designate	the waste	description ement method	ns ds
		-						

WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

A01	Spent	solvent	(F001-	F005.	K086)
-----	-------	---------	--------	-------	-------

A02 Other organic liquid (F001-F005, K086)

A03 Still bottom (F001-F005, K086)

A04 Other organic sludge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06 Contaminated soil of cleanup residue

A07 Other Fior K waste, exactly as described

A08 Concentrated off-spec or discarded product

A09 Empty containers

"Exactly as described" means that the waste matches the description of the RCRA waste code.

A10 Incinerator ash

A11 Solidified treatment residue

Other treatment residue (specify in "Facility Notes")

Other untreated waste (specify in "Facility Notes")

INORGANIC LIQUIDS-Waste that is primarily inorganic and highly fluid (e.g., aqueous), with

low suspended inorganic solids and low organic

301 Aqueous waste with low solvents

B02 Aqueous waste with low other toxic organics

BO3 Spent acid with metals

B04 Spent acid without metals

805 Acidic aqueous waste

806 Caustic solution with metals but no cvanides

807 Caustic solution with metals and cyanides

B08 Caustic solution with cyanides but no

809 Spent caustic

B10 Caustic aqueous waste

B11 Aqueous waste with reactive sulfides

B12 Aqueous waste with other reactives (e.g., explosives)

B13 Other aqueous waste with high dissolved solids

B14. Other aqueous waste with low dissolved SOLIOS

B15 Scrubber water

B16 Leachate

817 Waste liquid mercury

B18 Other inorganic liquid (specify in "Facility Notes")

INORGANIC SLUDGES-Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

B19 Lime sludge without metals

820 Lime studge with metals/metal hydroxide sludge

B21 Wastewater treatment sludge with toxic

B22 Other wastewater treatment sludge

B23 Untreated plating sludge without cyanides

B24 Untreated plating sludge with cyanides

B25 Other studge with cyanides

826 Sludge with reactive sulfides

827 Sludge with other reactives

B28 Degreasing studge with metal scale or filings

829 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)

B30 Sediment or lagoon dragout contaminated with organics

B31 Sediment or lagoon dragout contaminated with inorganics only

R32 Drilling mud

833 Aspestos slurry or sludge

B34 Chloride or other brine sludge

835 Other inorganic studge (specify in "Facility Notes")

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable.

B36 Soil contaminated with organics

B37 Soil contaminated with inorganics only

Ash, slag, or other residue from inciner-**B38** ation of wastes

839 Other "dry" ash, slag, or thermal residue

"Dry" lime or metal hydroxide solids **B40** chemically "fixed"

"Dry" lime or metal hydroxide solids not **B41** "fixed"

Metal scale, filings, or scrap **B42**

843 Empty or crushed metal drums or con-

Battenes or battery parts, casings, cores 844 Spent solid filters or adsorbents

B45 Aspestos solids and debris

B47 Metal-cyanide salts/chemicals

848 Reactive cyanide salts/chemicals

Reactive sulfide salts/chemicals 849

Other reactive saits/chemicals **B50**

B51 Other metal saits/chemicals Other waste inorganic chemicals **R52**

Lab packs of old chemicals only 853

B54 Lab packs of debris only

855 Mixed lab packs

Other inorganic solids (specify in "Facility Notes")

INORGANIC GASES-Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

B57 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content.

Concentrated solvent-water solution 858 Haiogenated (e.g., chlonnated) solvent 859

B60 Nonnalogenated solvent Halogenated/nonhalogenated solvent mixture

B62 Oil-water emulsion or mixture

863 Waste oil

Concentrated aqueous solution of other **B64** organics

Concentrated phenolics

865 Organic paint, ink, lacquer, or varnish 866

B67 Adhesives or expoxies

868 Paint thinner or petroleum distillates 869 Reactive or polymerizable organic liquid

Other organic liquid (specify in "Facility 870 Notes")

ORGANIC SLUDGES-Waste that is primarily organic, with low-to-moderate inorganic solids

content and water content; pumpable Still bottoms of halogenated (e.g., chlori-

nated) solvents or other organic liquids

Still bottoms of nonhalogenated 872 solvents or other organic liquids

873 Oily studge

B74 Organic paint or ink studge

Reactive or polymerizable organics

Resins, tars, or tarry studge **B76**

Biological treatment sludge

Sewage or other untreated biological siudge

Other organic studge (specify in 879 'Facility Notes')

ORGANIC SOLIDS-Waste that is onmanly organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

880 Halogenated pesticide solid

Nonhalogenated pesticide solid **B81**

Solid resins or polymenzed organics

883 Spent carbon

B84 Reactive organic solid

Empty fiber or plastic containers 885

Lab packs of old chemicals only 886 Lab packs of debris only B87

888 Mixed lab packs

B89 Other halogenated organic solid

Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure.

891 Organic cases

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

	•••••		
M1 = Dis	charge to publicly owned	Recov	very of solvents and liquid organics
was	stewater treatment works	for 1	reuse
M2 = Dis	scharge to surface water under		Fractionation
NPD			Batch still distillation
	scharge to off-site, privately		Solvent extraction
	ned wastewater treatment works		Thin-film evaporation
.M4 = Scr	rubber: a) caustic; b) water;		Filtration
	other		Phase separation
M5 = Ver	nt to: a) atmosphere; b) flare;		Dessication
c)	other (specify)	8SR	Other solvent recovery
M6 = 0t	ner (specify)	_	
			very of metals
TREATME	NT AND RECYCLING	IMR	Activated carbon (for metals
		0147	recovery)
	ation/thermal treatment		Electrodialysis (for metals
	quid injection		recovery)
21 Ro	tary or rocking kiln	3MK	Electrolytic metal recovery
	tary kiln with a liquid injection		Ion exchange (for metals recovery)
un:		OMR	Reverse osmosis (for metals
4I Tve	o stage	CMB	recovery)
51 F1	xed hearth	onk	Solvent extraction (for metals
or wr	ltiple hearth	7110	recovery)
	uidized bed	/mk	Ultrafiltration (for metals
8I In	rrared me/vapor	OMB	recovery) Other metals recovery
91 Fu	me/vapor rolytic destructor	onk	Other metals recovery
	her incineration/thermal	Voet	evater Treatment
	eatment		er each wastewater treatment type
Ų L	ea chieff c	nice	listed below (1WT - 66WT) specify
Reuse a	g fuel		a) tank; or b) surface impoundment
	ment kiln		(i.e., 63WTa)
	gregate kiln		(1101) 03-14)
3RF Ac	phalt kiln	Equa	alization
	her kiln		Equalization
	ast furnace		-1
	lfur recovery furnace	Cvar	nide oxidation
	elting, melting, or refining	2VT	Alkaline chlorination
	rnace		0zone
	ke oven	4VT	Electrochemical
	ther industrial furnace		Other cyanide oxidation
	dustrial boiler		•
	ility boiler	Gene	eral oxidation (including
	cocess heater	disi	infection)
	ther reuse as fuel unit	6VT	Chlorination
-		7WT	Ozonation
Fuel Bl	lending	8WT	UV radiation
	uel blending	9WT	Other general oxidation
	-		1
Solidii	fication	Che	mical precipitation ¹
1S Ce	ement or cement/silicate processes	10W	T Lime
	ozzolanic processes	11W	T Sodium hydroxide
	sphaltic processes		T Soda ash
	nermoplastic techniques		T Sulfide
5S 01	rganic polymer techniques	14W	T Other chemical precipitation
	acketing (macro-encapsulation)		
	ther solidification		omium reduction
			T Sodium bisulfite
		16W	T Sulfur dioxide

EXHIBIT 8-2. (continued)

MANAGEMENT METHODS

17WT Ferrous sulfate 18WT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)
19WT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical 22WT Other emulsion breaking

Adsorption
23WT Carbon adsorption
24WT Ion exchange
25WT Resin adsorption
26WT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation
30WT Thermal
31WT Solar
32WT Vapor recompression
33WT Other evaporation

Filtration
34VT Diatomaceous earth
35VT Sand
36VT Multimedia
37VT Other filtration

Sludge dewatering
38VT Gravity thickening
39VT Vacuum filtration
40VT Pressure filtration (belt, plate
and frame, or leaf)
41VT Centrifuge

Air flotation
43WT Dissolved air flotation
44WT Partial aeration
45WT Air dispersion
46WT Other air flotation

42WT Other sludge devatering

Oil skimming 47WT Gravity separation 48WT Coalescing plate separation 49WT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52VT Activated sludge
53VT Fixed film-trickling filter
54VT Fixed film-rotating contactor
55VT Lagoon or basin, aerated
56VT Lagoon, facultative
57VT Anaerobic
58VT Other biological treatment

Other wastewater treatment
59WT Wet air oxidation
60WT Neutralization
61WT Nitrification
62WT Denitrification
63WT Flocculation and/or coagulation
64WT Settling (clarification)
65WT Reverse osmosis
66WT Other wastewater treatment

OTHER WASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

ACCUMULATION

1A Containers 2A Tanks

STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

DISPOSAL

1D Landfill

2D Land treatment

3D Surface impoundment (to be closed as a landfill)

4D Underground injection well

Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

.—,		2	- 4	1	tion of	Ponido	ence Time
		Compas			erature		nce lime bustion
		Temperati	nber ure (°C)		nitor		(seconds)
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary
	1						
	2			\rightarrow			
							
	3			/			<u> </u>
		e if Office o ling the appr			s been submi	ted in lieu	of response
	Yes		<i>.</i>				 1
	No			• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • •	
8.23 CBI	Complete the are used on-s treatment blo	ite to burn t	he residuals	identified	l in your prod	ty) incinera cess block o	tors that r residual
	are used on-s treatment blo	ite to burn t	he residuals am(s).	identified ○	l in your prod	cess block o Type Emissio	r residual s of ns Data
CBI	are used on-s	ite to burn t	he residuals am(s).	identified	l in your prod	cess block o Type Emissio	r residual s of
CBI	are used on-s treatment blo	ite to burn t	he residuals am(s).	identified ○	l in your prod	cess block o Type Emissio	r residual s of ns Data
CBI	are used on-s treatment blo	ite to burn t	he residuals am(s).	identified ○	l in your prod	cess block o Type Emissio	r residual s of ns Data
CBI	are used on-s treatment blocking incinerator	ite to burn t	he residuals am(s).	identified ○	l in your prod	cess block o Type Emissio	r residual s of ns Data
CBI	Incinerator 2 3 Indicat	ite to burn t ck flow diagr	he residuals am(s). Air Po Control	identified C Pop Cllution Device Te survey has	l in your prod	Type Emissio Avai	r residual s of ns Data lable
CBI	Incinerator 1 2 Indicat by circ	ite to burn t ck flow diagr e if Office o ling the appr	Air Po Control of Solid Wass	identified Providentified Colored Providential Colored Providen	as been submi	Type Emissio Avai	r residual s of ns Data lable of respons
CBI	Incinerator 1 2 3 Indicat by circ	ite to burn tock flow diagr	Air Po Control of Solid Was ropriate res	identified Apple Allution Device te survey have boonse.	as been submi	Type Emission Avai	r residual s of ns Data lable of respons
CBI	Incinerator 1 2 3 Indicat by circ	ite to burn tock flow diagr	Air Po Control of Solid Was ropriate resp	identified O POP Illution Device te survey have boonse.	as been submi	Type Emission Avai	r residual s of ns Data lable of respons
CBI	Incinerator 1 2 3 Indicat by circ	e if Office of ling the appr	Air Po Control of Solid Wass ropriate res	identified Apple Allution Device te survey have boonse.	as been submi	Type Emission Avai	r residual s of ns Data lable of respons
CBI	Incinerator 1 2 3 Indicat by circ Yes No	e if Office of ling the approximately codes	Air Po Control of Solid Was ropriate respective designate	identified Apple Allution Device te survey have boonse.	as been submi	Type Emission Avai	r residual s of ns Data lable of respons
CBI	Incinerator Incinerator 1 2 3 Indicat by circ Yes No 1Use the foll S = Scrubber E = Electros	e if Office of ling the appr	Air Po Control of Solid Wass ropriate respecto designate pe of scrubb itator	identified Apple Allution Device te survey have boonse.	as been submi	Type Emission Avai	r residual s of ns Data lable of respons

SECTION	Q	WORKER	EXPOSURE
JULY TITUL	7	M OTOTIVE	

C	aral	Tn	-+-	10 t	10	ne.
L-one	3721	1 17	5 T T I	101	1 ()	118 :

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[__] Mark (X) this box if you attach a continuation sheet.

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

<u>Data Element</u>	Hourly Workers	intained for Salaried Workers	: Year in Which Data Collection Began	Number of Years Reco
Date of hire			1940	10 yes from 20
Age at hire		X		<u> </u>
Work history of individual before employment at your facility				
Sex			1964	
Race	_ \		1964	
Job titles			1940	н
Start date for each job title		<u> </u>		11
End date for each job title	<u> </u>		- 11	
Work area industrial hygiene monitoring data			1969	20 yrs
Personal employee monitoring data		<u> </u>	1969	20 41
Employee medical history	*	X	Pre-1950	Indef.
Employee smoking history	44	<u> </u>	<u></u>	44
Accident history			Pre-1950	204
Retirement date		<u> </u>	19100	1D VIS Fire
Termination date	<u> </u>		1960	*#1
Vital status of retirees	<u> </u>	<u> </u>	1960	11.
Cause of death data	<u> </u>	<u> </u>	1951	From I

CBI					
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the	Enclosed	Not App.	Dot App	Not App.
	listed substance	Controlled Release	n_		
		0pen			11
	On-site use as	Enclosed	16		. 15
	reactant	Controlled Release	16	11	1(
		0pen			1(
	On-site use as	Enclosed			ч
	nonreactant	Controlled Release	<u>. u</u>		- 11
		0pen		<u> </u>	
	On-site preparation	Enclosed	п	<u> </u>	и
•	of products	Controlled Release	11	<u> </u>	u
		0pen	3.3		11

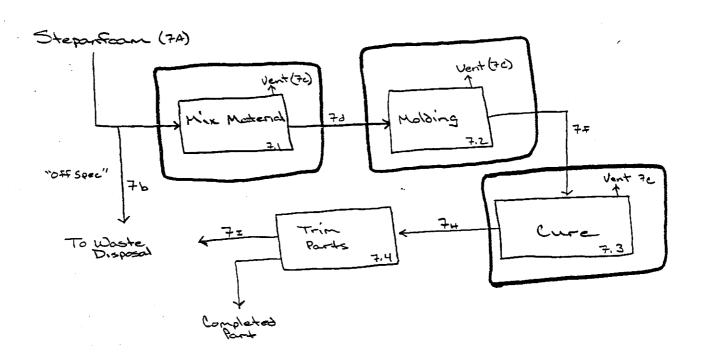
|--|

Provide a descriptive encompasses workers what listed substance.	ho may potentially come in contact with or be exposed to the
[]	
Labor Category	Descriptive Job Title
A	Fabricator
В	
С	
D	
E	
F	
G	
H	
I	
J	
	•
	.
-	

9.04	In accordance with the instructions,	provide your	process	block	flow	diagram(s)	and
	indicate associated work areas.						

CBI

Process type Molding



[] Mark (X) this box if you attach a continuation sheet.

05 <u>SI</u>	may potentially come in additional areas not sho	k area(s) shown in question 9.04 that encompass workers who contact with or be exposed to the listed substance. Add an own in the process block flow diagram in question 7.01 or lestion and complete it separately for each process type.
<u>_</u> 1	Process type	Molding
	Work Area ID	Description of Work Areas and Worker Activities
	1 7.1	Paint Booth (Enclosed)
	. 2 7.2 _	11
	3 7.3 _	\1
	4	
	5	
	6	
	. 7	
	8	
	9	
	10 _	
	·	
	. *	
	•	

Process type Molding							
Work area							
Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direc skin contact		Average Length of Exposure Per Day ²	Number of Days per Year Exposed		
<u> </u>		Inhalation	OL	<u> </u>	12		
-							
	llowing codes of exposure:	to designate the	physical state of	f the listed s	ubstance at		
	(condensible a perature and pr		SY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g.,				
GU = Gas temp	(uncondensible perature and pr Ludes fumes, va	e at ambient cessure;					
SO = Soli		.,		10% toluene)			
² Use the fo	ollowing codes	to designate ave	rage length of ex	posure per day	·•		
B = Greate	nutes or less er than 15 minu ding 1 hour	ites, but not	D = Greater tha exceeding 4 E = Greater tha	hours			
	er than one hou	ur but not	exceeding 8				

Process type	Molding	
		Paint Booth
Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify
Λ	NA	NA
		
·		
•	•	
		•

If you monitor worker						
No Tes	ting h	as been .	regumed is under	as of the	time from	in so to
Sample/Test	Work Area ID	Testing Frequency	Number of	Who	Analyzed In-House	Number of Years Record Maintained
Personal breathing zone	<u> 40°</u>	<u></u>	NA	<u>NA</u>	24	NA.
General work area (air)	- 11	w				• (
Wipe samples		•(<u>.</u>	,,	• • • • • • • • • • • • • • • • • • • •
Adhesive patches	16			- 11		',
Blood samples	· · ·	L _L	iı	١,		31
Urine samples	- 1,	<u>u</u>	<u> </u>	V ₁	<u>,,, </u>	<u>'</u>
Respiratory samples	*1	4	11			1,
Allergy tests	4		ч	1,	<u> </u>	
Other (specify)						
Other (specify)						_
Other (specify)						
¹ Use the following of		-	o takes the	monitori	ng samples	:
A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	ier t					

— _]	Sample Type	Sam	pling and Analyti	cal Methodolog	<u>y</u>		
	NA	AG					
	If you conduct perso	nal and/or ambient	air monitoring for	the listed s	ubstance,		
9.10	specify the following	g information for e	ach equipment type	e used.			
CBI	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number		
·	NA	PA	NA	NA	44		
	¹ Use the following	codes to designate	personal air monit	oring equipmen	nt types:		
	A = Passive dosime						
	D - Other (specify	ation tube with pum					
		codes to designate		oring equipmen	t types:		
	<pre>F = Stationary mon G = Stationary mon H = Mobile monitor</pre>	E = Stationary monitors located within work area F = Stationary monitors located within facility G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify)					
	I = Other (specify	codes to designate		nits:			
	A = ppm	codes to designate					
	B = Fibers/cubic of C = Micrograms/cub	centimeter (f/cc) bic meter (µ/m³)					

I	Test D	escription		(weekly,	Frequency monthly, yearly,	etc.)
	 -	undion Test			Yearly	
	nlmonary F	anotory (e.g.				
						
				N:		
		·				
		w				

.12 :BI	Describe the engineering control to the listed substance. Photoprocess type and work area.	rols that you tocopy this o	use to reduce of question and comp.	r eliminate wor lete it separat	ker exposure ely for each
	Process type	Molò	lina	the state of the s	**************************************
	Work area			·· Paint Bo	wth
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u>Y</u>	<1985	<u> </u>	1986
	General dilution				
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment				
	Other (specify)				
		europe de la constitución de la	-		
		. •			
			•		

13 <u>31</u>	Describe all equipment or process modifications you have mapping to the reporting year that have resulted in a reduction the listed substance. For each equipment or process modification the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area.	ion of worker exposure to leation described, state copy this question and
_]	Process type Molding	
	Work area	Paint Booth
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	Doors on Paint Booth	UK
	•	

in each work ar	rsonal protective and safety equip ea in order to reduce or eliminate tocopy this question and complete	their exposure	to the listed
Process type	<u>Molding</u>		
Work area		• • • • • • • • • • • • •	Paint Booth
. ,			
·		Wear or Use	
	Equipment Types	(Y/N)	
	Respirators	N	
	Safety goggles/glasses	<u> </u>	
	Face shields	N	
	Coveralls	N	
	Bib aprons	<u>\</u> \	
•	Chemical-resistant gloves	<u> </u>	
	Other (specify)		
• •			
	Ja		

		Not 1	Applicable			
_1	Process type			Fit		Frequency of
	Work Area	Respirator Type	Average Usage	Tested (Y/N)	Type of Fit Test ²	Fit Tests (per year)
	·		<u>.</u>			
	² Use the fo QL = Quali QT = Quant	llowing codes to desi tative itative	ignate the type	01 111 16	~ · ·	
	·					
		ya.				
		1 4				

1	question and complete it se	. •					
	Process type Molding						
	Work area	• • • • • • • • • • • • • •		· <u>Paint</u>	Booth		
	Authorized work	ers and th	ose who w	ay be aft	fected by		
	the listed chemic						
	per the require						
	727						
				1 3 3	un routino		
0	Indicate (X) how often you leaks or spills of the list	ted substance.	Luotocobà (ur:	s question an	d complete it		
	separately for each process	s type and work	area.				
	separately for each process	s type and work	area.				
	separately for each process	s type and work	area.				
	Process type	s type and work		nt Boot	h		
	Process type	s type and work	area.		More Than 4		
	Process type	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area	Less Than	1-2 Times	3-4 Times			
	Process type Work area Housekeeping Tasks Sweeping	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area Housekeeping Tasks Sweeping Vacuuming	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than	1-2 Times	3-4 Times	More Than 4		
	Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than	1-2 Times	3-4 Times	More Than 4		

PART E . WORK PRACTICES

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes
	No
	Emergency exposure
	Yes 1
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes ①
	No 2
	If yes, where are copies of the plan maintained? MSDS
٠	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant
	Other (specify)
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle a	ll appropriate responses.
<u>CBI</u>		
[_]		
	Urban area	2
		3
	Agricultural area	4
	Rural area	5
	Adjacent to a park or a recreational area	6
	Within 1 mile of a school, university, he	spital, or nursing home facility \cdots
	Within 1 mile of a non-navigable waterway	, 9
	Other (specify)	

10.02	Specify the exact location of your is located) in terms of latitude an (UTM) coordinates.					
•	Latitude	····· <u> </u>	34 . 11	′35"		
	Longitude		118 ° 21	<u>' 35</u> "		
	UTM coordinates Zone	, Northin	g, Eas	ting		
10.03	If you monitor meteorological condithe following information.	itions in the vicinit	y of your facil	ity, provide		
	Average annual precipitation			inches/year		
	Predominant wind direction					
10.04	Indicate the depth to groundwater	below your facility.				
	Depth to groundwater		50	meters		
10.05	For each on-site activity listed, solution listed substance to the environmen Y, N, and NA.)	indicate (Y/N/NA) all t. (Refer to the in	l routine releas structions for a	es of the definition of		
[_]		Envi	ronmental Releas			
` <u> </u>	On-Site Activity	Air	Water	Land		
	Manufacturing	<u> </u>	NA	AG		
	Importing	NA	AG	NA		
	Processing	<u> </u>	- N	<i>N</i>		
	Otherwise used	NA	49	NA		
	Product or residual storage	у	<u> </u>	<u> </u>		
	Disposal	NA		NA		
	Transport	NA	NA	WA		
			3333			

10.00	of precision for each an example.)	ng information for the listed the item. (Refer to the instru	ctions for further	explanation and
CBI	Cit Citating 1 1 7			
[_]	Quantity discharged	to the air	UK	kg/yr ± %
	Quantity discharged	in wastewaters	NA	kg/yr ± %
	Quantity managed as treatment, storage,	other waste in on-site or disposal units	NA	kg/yr ± %
	Quantity managed as treatment, storage,	other waste in off-site or disposal units	UK	kg/yr <u>+</u> %
		P		

[_] Mark (X) this box if you attach a continuation sheet.

_1	Process type	Molding	
	Stream ID Code	Control Technology	Percent Efficienc
	<u> </u>	NA NA	NA
	•		
	•	·.	
	•	•	

residual tre	atment block flow not include raw mag., equipment leaks	ID Code as identified in your process block or diagram(s), and provide a description of each point terial and product storage vents, or fugitive emiss). Photocopy this question and complete it separat
•		olding
Point Source	· ·	Description of Emission Point Source
7c	-	Paint Booth Vent
	- -	
	·	
	•	
	•	
	•	
		·
	•	
	, u	

8

this

xod ٠. m you

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

⁴Average Emission Factor — Provide estimated (± 25 percent) emission factor (kg of emission per kg of production of listed substance)

Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)		Ven (
<u> 7c</u>	18.7	0.9	Ambrent	_5.la	_55	9.7	
				_			
				_			
				_			
							,
 1 Height	of attache	d or adjacen	t building				
		or adjacent					
			esignate vent	type:			
	rizontal						·
V = Ve	rtical	·		*		·	
		v			·		

10.13 CBI	Equipment Leaks — Complete to types listed which are exposed according to the specified we the component. Do this for exposed to the listed subprocess, give an overall percexposed to the listed substant for each process type.	d to the linght percestach process diagram(sestance. Intentage of	isted subnt of the stype ic.). Do no f this is time per	ostance are listed selentified of includes a batch year that	nd which assubstance in your pe equipmen or internation the proof	are in serpassing process but types mittently cess type	rvice through lock or that are operated is	
[_]	Percentage of time per year that the listed substance is exposed to this process type							
			of Liste	d Substan	ce in Pro	cess Stre		
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%	
-	Pump seals ¹							
	Packed							
	Mechanical	-						
	Double mechanical ²							
	Compressor seals ¹							
	Flanges							
	Valves							
	Gas ³							
	Liquid							
	Pressure relief devices ⁴ (Gas or vapor only)							
	Sample connections							
	Gas							
	Liquid							
	Open-ended lines ⁵ (e.g., purge, vent)	-						
	Gas "							
	Liquid			******				
	¹ List the number of pump and compressors	compressor	seals,	rather th	an the nu	mber of p	oumps or	
10.13	continued on next page							

10.13	(continued)							
	² If double mechanical seal greater than the pump stu will detect failure of th with a "B" and/or an "S",	ffing box pressure as e seal system, the ba	nd/or equipped wit	h a sensor (S) that				
	³ Conditions existing in the valve during normal operation							
	⁴ Report all pressure relief devices in service, including those equipped with control devices							
	⁵ Lines closed during norma operations	al operation that wou	ld be used during	maintenance				
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices in devices in service are con enter "None" under column	lentified in 10.13 to itrolled. If a press	indicate which pr	is not controlled,				
·—,	a.	b.	c.	d. Estimated				
	Number of Pressure Relief Devices	Percent Chemical in Vessel	Control Device	Control Efficiency ²				
	NA	AM	<u> </u>	A				
٠.								
		-						
	Refer to the table in que heading entitled "Number Substance" (e.g., <5%, 5-	of Components in Ser	rd the percent ran vice by Weight Per	ge given under the cent of Listed				
	² The EPA assigns a control with rupture discs under efficiency of 98 percent conditions	normal operating con	ditions. The EPA	assigns a control				
<u> </u>	Mark (X) this box if you a	attach a continuation	sheet.					

_ Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches	- Detection	Frequency of Leak	Repairs Initiated	Repairs
darbment rybe	from Source	Device		(days after detection)	Complete (days aft initiated
Pump seals					
Packed					
Mechanical					
Double mechanical					·
Compressor seals					
Flanges					
Valves					
Gas		••			
Liquid					
Pressure relief devices (gas or vapor only)					
Sample connections					
Gas					
Liquid					
Open-ended lines					
Gas					
Liquid					
	Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas	Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas	Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas	Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas Gas	Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas

2.4		
DADT F	NON_ROUTINE	RELEASES

	list all	<i>\</i>	of Applic						
	Release	Da <u>Sta</u>	te rted	Time (am/pm)	Date Stopped	Time (am/pm)			
	1	-							
	2								
	3								
	4	· · · · · · · · · · · · · · · · · · ·							
	5								
	6								
10.24	Specify the weather conditions at the time of each release.								
		NOT App		TT	Temperature	Precipitation			
	Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	(°C)	(Y/N)			
	1								
	2								
	3								
	4								
	5								
	6			•					
		-		·					

FIRST CLASS





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Aeronautical Systems Company

A Division of Lockheed Corporation P.O. Box 551, Burbank, California 91520, U.S.A.

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